Job code: 005-20-000088
Est cost: 450.00 lakhs

M. A. R. 57 (Rule 116)
Measurement Book

No. B 356738

Serial No. .....

Name of Work Improvements to Roads and PCC Drains at Brundhavana From ..... To .....

Name of Contractor of nature of Agency College Road Vinayakanagara Shivapura and

Date of commencement of work Surrounding Area in ward No 05

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Work Order: BBMP/EE/BTP/WO/131/2020-21 Dt 7/10/20						
	Name of Contractor: M/s Sathya Constructions (Prop) R. Sathesh, No: 600, Down Bazar Road, Yelahanka, Bangalor-64						
1	Dismantling of existing Structures like Culverts, ~~bridge~~ comprising of masonry C.C wood work steel work including T&P + Scaffolding wherever necessary sorting the dismantled material disposal of						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Unserviceable materials & stacking. It Servi- cable materials etc Complete Qty is as per measurement Sheet Qty. —						
	@ Rate						
(3)	Earthwork Excavation by manual means for roads & Similar works in ordinary soil excavated Surface levelled & Sides neatly dressed the disposed earth to be levelled neatly after breaking Clods etc Complete Qty is as per measurement Sheet Qty - 279.98						
	@ Rate 217.88/m³						= 60809900

M. A. R. 57 (Rule 116)
Measurement Book

No. B 356739

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
(6)	providing & laying P.C.C 1/2 m x 1:3:6 with 40 mm m down size crushed graded granite metal coarse aggregate & fine aggregates in foundation mechanically mixed placed in foundations & compacted by vibration including curing including cost of all materials etc complete. @ Rate 5990.28/m³					Qty - 468.79 m³ = 2667546=00	
(7)	Providing laying/ plain reinforced C.C for side drains using M20 nominal mix concrete with 20 mm down size granite metal coarse aggregate & fine						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Aggregate reading mixes well Complete for well + Bottom including centering Shuttering Cost of material etc complete qty is As per measurement sheet Item no 7 @ Rate 7420.17/m^3					qty - 927.54 m^3 = 6883246=00	
	(8) Providing T.M.T bars Fe 500 steel reinforcement for RCC work including Straightening Cutting bending hooking placing in position lapping or welding wherever required tying with binding wire &						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

356740

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	anchoring to adjoining members wherever necessary etc complete qty is as per pre measurement sheet Item no 8. @ Rate 7707.17/Tm					qty 65.34 Tm = 459775=00	
	(9) Providing & fixing pre cast covering slabs made out of CC 1:2:4 with 10cm thick & finishing Cutting including form work curing including cost of all material labour Hair Charges of machinery loading & unloading leads & lift transportation						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty ie cy per measurement Sheet item no 7 253.19 m² Qty - 2536 m² @ Rate 2442.68/m² = 6220262=00						
(10)	providing & Fixing precast covering slab comprising of RCC 1:2:4 (20 mm down size with steel reinforcement including formwork curing including cost of all materials labour hire charges & machinery loading unloading lead & lift transportation etc complete						
	M/Rotors						
	Qty ie As per measurement Sheet item no 10 @ Rate 5686.19/m² Qty 26.58 m² = 151139=00						
(12)	Excavation for roadworks in all types of soil by mechanical means including cutting and loading to tipper trimming bottom & sides slopes in accordance with requirement of lines grades & cross sections & transportation with a lead of 1 to 1 km etc complete						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 356741

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

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MEASUREMENT BOOK

ate 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurem 8
	Qty is as per premeasurement sheet item NO 12					Qty - 997.13 m^3	
	above 125%. ⓐ Rate 59.04/m^3					= 58870 = 80	
	up to 125%.					Qty 263.79 m^3	
	ⓐ Rate 59.04/m^3					= 15574 = 80	
						12811.60	
(13)	Scarifying bituminous course 50mm to 75mm thick along with premix carpet/surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all materials etc. complete						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

35674

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty is as per premeasurement sheet item NO 13						
	upto 125% ⓐ Rate 43.39/m^2					Qty - 2685.0 m^2	
						= 116502 = 80	
	above 125% ⓐ Rate 43.39/m^2					Qty - 3575.00 m^2	
						= 155123.50 = 80	
(15)	Compaction of original ground by mechanical means including filling in depression during rolling including cost of all labour etc complete						
	Qty is as per premeasurement sheet item NO 15						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty up to 125%.				Qty	= 3328.75	
	@ Rate 6.67/m²					= 22203.50	
	Above 125%.				Qty	= 2931.34 m²	
	@ Rate 6.67/m²					= 19552.00	
(16)	Construction of granular sub-base (grading V) cy Sub. base + drainage layer by providing coarse graded crushed stone aggregates of granite materials mixing in a mechanical mix plant at OMC carriage of mixes materials to work Spreading in uniform layer with motor grader on surface + compacting with						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 356743

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Vibratory power roller 12 to achieve 98% proctor density etc complete						
	Qty is as per premeasurement sheet item no 16						
	Qty up to 125%				Qty	= 499.31 m³	
	@ Rate 2093.67/m³					= 1045390.10	
	above 125%				Qty	= 439.70 m³	
	@ Rate 2093.67/m³					= 920587.10	
(17)	Providing laying spreading + compacting crushed Stone aggregates of granite wet mix macadam						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	including premixing the material by tipper to site laying in uniform layer with paver sub-base/base Course on well prepared surface + compacting with vibratory roller to achive desired density etc complete						
	up to 12.5%				Qty	= 1762.70 m³	
	ⓐ Rate 2100.34/m³					= 3702353=00	
	above 12.5%				Qty	- 937.98 m³	
	ⓑ Rate 2100.34					= 1970077=00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 356744

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
18	Clearing the existing WBM road removing of binding materials matters with wire brushes & Small pieces sweeping with brooms or soft brushes & finally bituminous treatment including cost & all materials etc complete						
	up to 12.5%				Qty	- 7664.09 m²	
	ⓐ Rate 23.36/m²					= 179033=00	
	above 12.5%				Qty	- 4078.16 m²	
	ⓑ Rate 23.36/m²					= 95266=00	

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MEASUREMENT BOOK

M. A. R. 57 (Rule 116)
Measurement Book

No. B 356745

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(19)	providing & applying primer coat with Bitumen emulsion on prepared surface of granular base such as WBM including cleaning of road surface etc complete						
	upto 12%.				Qty	11577.88 m²	
	@ Rate 30.04/m²					=347799=00	
	Above 12%.				Qty	1273.18 m²	
	@ Rate 30.45/m²					=38786=10	
(20)	providing & laying DBM machadam crushed aggregates of specified grading premixed with VG30 grade Bitumen with binder & transporti						
	hot mix to work site laying to the required grade level & alignment rolling with smooth wheeled vibratory & tandem rolling to desire compaction in all respects etc complete						
	upto 12%.				Qty	578.89 m³	
	@ Rate 6924.0/m³					= 4008240=00	
	above 12%.				Qty	63.67 m³	
	@ Rate 6724.88/m³					= 428173=00	

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MEASUREMENT BOOK

M. A. R. 57 (Rule 116)
Measurement Book

No. B 356746

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
21	cleaning the black topped surface with brooms soft brushes finally dusting with old gunny bags or compressed air to receive bituminous treatment including cost & all materials etc complete @ Rate 5.56/m²				Qty	13654.87 m² = 75921=00	
22	providing and applying tack coat using 80/100 grade bitumen (VG 10) on the prepared black topped surface at 2.5 kg/10 m² heating bitumen in boiler fitted with spray set including cost & all materials etc complete						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Compaction in all respect etc complete						
	@ Rate 8137.72/m^3				Qty	5461.9 m^3	
						= 44447425	
(24)	Road marking with hot applied Thermoplastic compound with Retroreflectorising glass Beads on Bituminous surface providing & laying & hot applied thermoplastic compound 2.5 mm thick. The finished surface to be clean & free from streaks etc complete						
	@ Rate 477.25/m^2				Qty	483.92	
						= 231905	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 356747

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
		& RC		Add	12.1.	Total =	39546755=0
						GST	= 4745610 = K
							44292365=0

Certificate:

(1) It is certified that the above work done satisfactorily

(2) above Bill Amount is not claimed in any of previous Bills.

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

Assistant Executive Engineer
Byatarayanapura Sub Division
Bangalore-560024

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8th main 345.8m

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	7th main 337.8m						

Executive Engi
Byatarayanapura Sub Divi
B.B.M P Bangalore-5600

M. A. R. 57 (Rule 116)
Measurement Book

No. B 356548

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Asphalt Road CC Drain CC Culvert		206				

Byatarayanapura Main Road

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M P Bangalore-560024

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Ref. to Measu. No.
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	Bangalore Main Road						
	Shivapura						

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M P Bangalore-560024

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